ACCUTIVE SECURITY

The Auth + Crypto products and services company

Case Study

Healthcare Technology Provider

Introduction

In the healthcare industry, the abundance of sensitive personal data has led to increased demands from customers for robust security measures and strict compliance with data regulations. Given the evolving nature of the security landscape, enterprises must reevaluate their conventional infrastructures to stay ahead.

One healthcare company, known for its forward-thinking approach, faced the challenge of meeting these demands while continuing to provide excellent services to its customers. Managing a vast clientele and facilitating intricate data transactions daily, this healthcare company aimed to streamline data processes and bolster security measures in compliance with industry regulations. With a complex database, multiple files, and tables of over one billion rows, the company required a solution with scalability to accommodate their needs.

To tackle their security needs, the company collaborated with Accutive Security, leveraging its data discovery and masking platform (ADM) to enhance data security and management capabilities. This case study explores the company's transformative journey, illustrating how ADM has paved the way for safe, efficient, and resilient healthcare solutions.

The following sections contextualize the company's project, the implementation process, and the remarkable outcomes, underscoring the pivotal role of the ADM platform in the digital transformation.

About The Client

This healthcare company offers a wide range of healthcare services. At the core of their operations is a variety of files and databases, like PostgreSQL database and MySQL Server.

This landscape, while powerful, poses challenges in data management, protection, synchronization, and regulatory compliance. Effectively managing these complexities demands a flexible and robust solution like the ADM platform. Less capable data masking solutions are unable to manage complexities of billions of rows across multiple data sources. ADM provides comprehensive data discovery and masking capabilities across multiple databases and data sources, addressing the company's needs for efficient, secure management of diverse data assets while ensuring adherence to stringent industry regulations like PII and HIPAA.

Challenges

Embarking on its digital transformation journey, the healthcare company faced the obstacle of the **nuanced Postgres database** and the **referential integrity of various data sources**.

The Postgres database is uniquely challenging because it automatically updates indexes. When this updating occurs during data masking, it can greatly increase processing times. To prevent this delay, the Accutive Security team suggested that the healthcare company remove the indexes during the data masking process and reinstate them afterward. Unfortunately, the indexes were not removed correctly, significantly delaying the initial data masking process.

Fortunately, the Accutive Security team was able to identify the issue and dramatically reduce the processing time from three weeks to less than a single day. Although one day was still substantially longer than ADM's typical masking operation time, it was significantly faster than alternative masking methods. Moreover, the healthcare company gained valuable insight into the functions of its database and is now better prepared for future data masking and automation projects.

Another obstacle faced by the healthcare company was the need for referential integrity across different data sources. The company uses one database and two types of files; however, in one file, data is uniquely formatted. If not addressed, this can lead to masking errors and compliance failures.

Fortunately, the Accutive Security team was able to resolve the issue by writing custom groovy scripts for the healthcare company. These groovy scripts addressed the discrepancies between data format types and allowed data masking to continue successfully. As a result, data represented in multiple data sources was efficiently and identically masked regardless of location.

Solution

Accutive Security's ADM platform emerged as the ideal solution for the organization's complex needs. It offered data discovery, data masking, automated alerts, and consistent masking across multiple data sources. The implementation of the ADM platform for the healthcare company unfolded in several key phases: discovery, design, development, and deployment. Each phase was tailored to the company's unique requirements and carefully monitored to ensure successful integration into existing workflows.
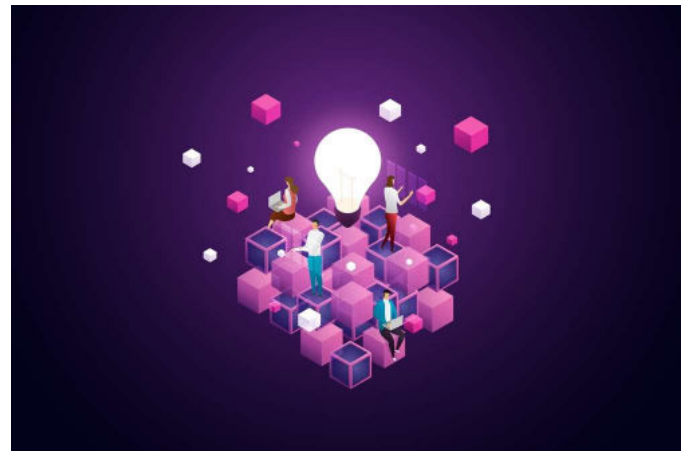
Results

Upon implementing ADM, the healthcare company witnessed significant improvements:

O **Enhanced Data Security:** The ADM platform empowered the company to identify and mask sensitive data, significantly reducing the risk of a data breach.

O **Regulatory Compliance:** With the ADM platform, the company could effortlessly meet its regulatory obligations, ensuring the protection of customer information across multiple complex databases.

O **Streamlined Processes:** The ADM platform's robust and scalable nature enabled the company's software engineering, DevOps, and DataOps teams to work more efficiently.

Conclusion

The adoption of Accutive Security's ADM platform transformed the large health care company's data protection and operational strategies, reinforcing their market standing as a secure and efficient health care technology provider. Leveraging ADM, this organization stays on the leading edge of health tech innovations by developing, testing and sharing realistic data, without the risk of exposing extremely sensitive personal medical data.

About Accutive Security

At Accutive Security, we are a trusted leader in Auth + Crypto solutions. Founded in California in 2009 by FinTech engineers and consultants, our expertise is focused on safeguarding essential data and software systems. Partnered with the world's leading Auth + Crypto companies, we deliver a comprehensive range of services and products to our mutual customers, including data discovery, data masking, key management, PKI management, certificate lifecycle management, hardware security module management, and more.

Our cutting-edge solutions are trusted by globally recognized organizations to protect their most sensitive data, regardless of its location. From cloud infrastructures to data centers, we ensure information remains secure and accessible. With our commitment to security, we empower organizations to confidently navigate their digital transformation and realize their full potential in a digitally connected future. Visit our website to learn more about our security solutions and services at www.accutivesecurity.com/adm-platform/.

CONTACT INFORMATION

27068 La Paz Road, Suite 245

Aliso Viejo, CA 92656

Toll Free 888.666.8315

Contact Us

www.accutivesecurity.com

ACCUTIVE
SECURITY